For Testing and Validation of 2% Agarose Gel Cassettes

Control DNA

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collects targets between 100 bp - 600 bp

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Sage Science, Inc.
Suite 3150, 500 Cummings Center
Beverly, MA 01915
support@sagescience.com
978.922.1832

* These data are not intended to imply guaranteed results or performance. This product is intended to demonstrate that the Pippin Prep is functioning as expected, and that proper operational technique is being used. Users should refer to the Operations Manual for performance specifications.
What is Enclosed
Pippin Prep cassettes and instruments are functionally tested using restriction digests of genomic DNA from E. coli. For each cassette type, a different restriction digest is used, chosen so that size distribution of the digested DNA closely matches the useful fractionation range of the cassette, without any significant peaks or discontinuities. Following restriction digestion, the control DNA is purified by phenol:chloroform extraction, dialyzed, and diluted into Pippin Prep electrophoresis buffer (without ethidium bromide). The DNA is premixed with Pippin Prep loading solution and is provided ready for loading – no additional loading solution should be added. The DNA concentration is 5 micrograms per 40 microliters. 40 microliters of control DNA should be used per lane. Each tube contains sufficient volume for 16 sample loads.

Control DNA is useful to test, refine, and troubleshoot Pippin Prep size fractionation protocols. It can also be used to check system performance.

To Use
2. Pippette 40 µl of Control DNA into a sample well

QC protocol for 2% agarose cassettes
Cassettes are tested using “Tight” mode with the following target values. Extracted samples are run on an Agilent Bioanalyzer using a DNA 1000 chip. The analysis volume is 1 µl from a 40 µl elution volume (1:40 dilution).

<table>
<thead>
<tr>
<th>Target</th>
<th>Ave Size</th>
<th>Conc. [ng/ul]</th>
</tr>
</thead>
<tbody>
<tr>
<td>150 bp</td>
<td>149 bp</td>
<td>3.60</td>
</tr>
<tr>
<td>275 bp</td>
<td>280 bp</td>
<td>4.11</td>
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</tbody>
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The following bioanalyzer results show typical results from QC testing.